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		Application No.	Applicant(s)	
	Notice of Allowability	09/683,720	MILLER, JOHN R.	
	Motice of Allowability	Examiner	Art Unit	
		K. Feggins	2861	
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herewith (or NOTICE OF	The MAILING DATE of this communication appeling allowable, PROSECUTION ON THE MERITS IS previously mailed), a Notice of Allowance (PTOL-85 ALLOWABILITY IS NOT A GRANT OF PATENT REPORTED OF ALLOWABILITY IS NOT A GRANT OF PATENT REPORTED IN THE PROPRIES OF A STATE OF A STAT	6 (OR REMAINS) CLOSED i b) or other appropriate comm RIGHTS This application is	n this application. If not include	led
1. M This	communication is responsive to <u>Amendment filed 4/2</u>	<u> 19/2004</u> .	~	
2. X The a	allowed claim(s) is/are <u>2-29</u> .	a.		*
v	drawings filed on 11 March 2003 are accepted by the			• • • • • • • • • • • • • • • • • • • •
4. ☐ Ackno	owledgment is made of a claim for foreign priority unless of the some to large the colonial None of the colonial to the colon	nder 35 U.S.C. § 119(a)-(d)	or (f).	
	1. Certified copies of the priority documents have	e been received.	*	*
	2. Certified copies of the priority documents have		on No.	•
	3. \square Copies of the certified copies of the priority do	cuments have been receive	d in this national stage applica	tion from the
	International Bureau (PCT Rule 17.2(a)).		a in the hatterial stage applied	tion nom the
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moted belo	nas THREE MONTHS FROM THE "MAILING DATE" w. Failure to timely comply will result in ABANDONM	of this communication to file /ENT of this application.	e a reply complying with the red	quirements
THIS THRI	EE-MONTH PERIÓD IS NOT EXTENDABLE.	*		
5. A SUE	BSTITUTE OATH OR DECLARATION must be subm RMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXA es reason(s) why the oath or	AMINER'S AMENDMENT or Note that the control of the	OTICE OF
	ECTED DRAWINGS (as "replacement sheets") mus			**
(a) 🔲 in	cluding changes required by the Notice of Draftspers	on's Patent Drawing Review	u / DTO_0//8) attached	T = (0.00)
	1) hereto or 2) to Paper No./Mail Date		V (1 10-5-10) attached	
(b) 🔲 in	cluding changes required by the attached Examiner's aper No./Mail Date	s Amendment / Comment or	in the Office action of	X
Identifying	g indicia such as the application number (see 37 CFR 1. t. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the	ne drawings in the front (not the R 1 121/d)	back) of
7. 🔲 DEPO	SIT OF and/or INFORMATION about the depos	sit of BIOLOGICAL MATE	RIAL must be submitted A	1-4- 46-
attache	ed Examiner's comment regarding REQUIREMENT	FOR THE DEPOSIT OF BIO	PLOGICAL MATERIAL	lote the
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	of References Cited (PTO-892)		ormal Patent Application (PTC)-152)
	of Draftperson's Patent Drawing Review (PTO-948)	Paper No./N	Immary (PTO-413),	
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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The primary reason for allowance of claims 2-12 is the inclusion of the method step of processing a thermal element group to create a printed image that includes providing printing parameters for a supply for providing a microscrobe number and microscrobe energy values; generating a packed table the packed table having values based on the supply Printing parameters, selected thermal element group, the dot history pattern and the thermal element number and storing the packed table in a printer memory for use in creating a printed image. It is these steps found in each of eh claims, as they are claimed in the combination of, which has not been found, taught or suggested by the prior art of record that makes these claims allowable.

The primary reason for allowance of claims 13-22 is the inclusion of the method step of processing a thermal element group to create a printed image that includes creating a packed index having a packed index length, the packed index length based on the packed thermal element number, and determining packed index values to occupy the packed index length, the packed index values based on the packed dot history pattern; dividing microstrobes, the microstrobes based on the microstrobe number stored in the printer memory, such that divided microstrobes are produced; assigning packed binary pulse numbers to the divided microstrobes based on a strobe pattern, the packed binary pulse numbers corresponding to each of the packed index values occupying the packed index length; and determining packed strobe numbers based on the packed binary pulse numbers, the packed strobe numbers corresponding

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to each of the packed index values occupying the packed index length, wherein the printed image is created by using a bit map pattern, the packed dot history pattern, the packed index values, the packed strobe numbers, and the microstrobe energy values. It is these steps found in each of eh claims, as they are claimed in the combination of, which has not been found, taught or suggested by the prior art of record that makes these claims allowable.

The primary reason for allowance of claims 23-29 is the inclusion of the method step of processing a thermal element group to create a printed image that includes creating a packed index having a packed index length, the packed index length based on the packed thermal element number, and determining packed index values to occupy the packed index length, the packed index values based on the packed dot history pattern; dividing microstrobes, the microstrobes based on the microstrobe number stored in the printer memory, such that divided microstrobes are produced; assigning packed binary pulse numbers to the divided microstrobes based on a strobe pattern, the packed binary pulse numbers corresponding to each of the packed index values occupying the packed index length; determining packed strobe numbers based on the packed binary pulse numbers, the packed strobe numbers corresponding to each of the packed index values occupying the packed index length, until an entire raster line of packed strobe numbers is ascertained, wherein the printed image is created by using a bit map pattern, the packed dot history pattern, the packed index values, the entire raster lines of the packed strobe numbers, and the microstrobe energy values. It is these steps found in each of eh claims, as they are claimed in the combination of, which

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has not been found, taught or suggested by the prior art of record that makes these claims allowable.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Spano (US 6404452 B1) disclose an auxiliary control device for managing printing in a thermal printer. Yamamoto et al. (US 5038154) disclose driving an apparatus in accordance with the heating element energization patterns.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Communication With The USPTO

Any inquiry concerning this communication or earlier communications from the examiner should be directed to K. Feggins whose telephone number is 571-272-2254. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

K. Feggins May 13, 2004